

**\* NOTICES \***

JPO and INPIT are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

**DESCRIPTION OF DRAWINGS**

---

**[Brief Description of the Drawings]**

[Drawing 1]It is a lineblock diagram of the virtual surround device in the embodiment of the invention 1.

[Drawing 2]It is an explanatory view (the 1) showing the principle of operation of a virtual surround device.

[Drawing 3]It is an explanatory view (the 2) showing the principle of operation of a virtual surround device.

[Drawing 4]It is a functional block diagram of an acoustic image control section used for a virtual surround device.

[Drawing 5]It is a lineblock diagram of the virtual surround device in the embodiment of the invention 2.

[Drawing 6]It is a lineblock diagram of the virtual surround device in the embodiment of the invention 3.

[Drawing 7]It is a wave form chart showing the principle of operation of the listener position detector in Embodiment 3.

[Drawing 8]It is a lineblock diagram of the virtual surround device in the embodiment of the invention 4.

[Drawing 9]It is an explanatory view showing the principle of operation of the listener position detector in Embodiment 4.

**[Description of Notations]**

101 Acoustic image control section

102 Forward left loudspeaker

103 Forward right loudspeaker

104 Listener

105 Virtual back left speaker

106 Virtual back right speaker  
107 Listener position detector  
108 HRTF-coefficient-data base  
501 HRTF coefficient calculation part  
600,800 Transmitter-receiver  
601-604 Microphone  
605 Receive section  
606 Position detection signal generating part  
801 - 806 photosensor  
807,808 Lightwave signal generating part  
809 Primary detecting element

---

[Translation done.]